SEE SHEET 2

LOCATION MAP LATITUDE: 39°45'36" LONGITUDE: -84°44'25"

PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2024)	5700
DESIGN YEAR ADT (2036)	7500
DESIGN HOURLY VOLUME (2036)	1100
DIRECTIONAL DISTRIBUTION	71.6%
TRUCKS (24 HOUR B&C)	12%
DESIGN SPEED	60
LEGAL SPEED	55
DESIGN FUNCTIONAL CLASSIFICATION:	
04 MINOR ARTERIAL (RURAL), 04 MINOR ARTERIAL (URBAN)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE



PLAN PREPARED BY: ODOT DISTRICT 8 ENGINEERING 505 S. STATE ROUTE 741 LEBANON, OHIO 45036

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

PRE-US 35-2.62

JACKSON, WASHINGTON TOWNSHIP

PREBLE COUNTY

E150(963)

NONE

RESURFACING A PORTION OF US 35 IN PREBLE COUNTY BETWEEN I-70 AND THE CITY OF EATON. RETROFIT GUARDRAIL ON BRIDGE PRE-35-0860 AND REPLACE THE ASPHALT SURFACE COURSE WITH THE SAME TREATMENT AS THE APPROACH ROADWAY. REPLACE END SECTION OF 4 BOX CULVERT, RETROFIT GUARDRAIL, PATCH AND SEAL EDGES OF CONCRETE BOX AT PRE-35-0817.

INDEX OF	SHEETS:
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TITLE SHEET LOCATION MAP GENERAL NOTES MAINTENANCE OF TRAFFIC GENERAL SUMMARY PAVEMENT CALCULATIONS PAVEMENT MARKINGS **GUARDRAIL QUANTITIES** CURB RAMP QUANTITIES 9 CURB RAMP DETAILS 10 STRUGTURES PRE-US 35-8.17 11A,11B-12 PRAUSS-8.60 12 14-19

PLAN INSERT SHEETS



		ST	ANDARD		EMENTAL	SPECIAL PROVISIONS		
BP-3.1	1/21/22	MT-97.11	1/20/17		800-2023	7/21/2023		
BP-4.1	7/19/13	MT-105.10	1/17/20		832	7/15/22		
BP-7.1	1/20/23				843	10/18/19		
		TC-61.30	7/19/19		872	1/21/22		
MGS-1.1	7/16/21	TC-64.10	1/20/23		874	4/17/20		
MGS-2.1	1/19/18	TC-65.10	1/17/14		875	1/18/19		
		TC-65.11	7/15/22		878	1/21/22		
MGS-4.3	1/18/13	TC-71.10	4/26/23					
MGS-5.3	7/15/16							
RM-4.2	4/17/20							
DBR-2-73	7/19/02							
DBR-3-11	7/15/11							
PCB-91	7/17/20							

FEDERAL PROJECT NUMBER

RAILROAD INVOLVEMENT

PROJECT DESCRIPTION

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT EARTH DISTURBED AREA: = N/A (NOI NOT REQUIRED)*

=1.78 ACRES =N/A ACRES *ROUTINE MAINTENANCE PROJECT

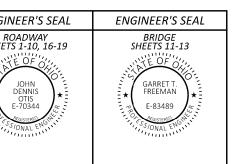
2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEARBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY WILL BE AS SET FORTH ON THE PLANS AND ESTIMATE.

District Deputy Director

ock Marchbanks, PhD Director, Department of Transportation



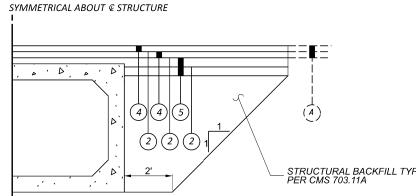
SHEET TITLE

ESIGN AGENC

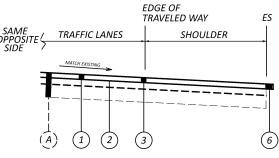


			S	HEET NUN	/l. 1	1				PA	RT.	\sim	ITEM	ITEM	GRAND	UNIT	DESCRI
3	3	4	6	7	8	9	11	13	01/STR/05	02/S5K/05	03/STR/13	04/STR/04	2	EXT	TOTAL	0	
			22								22		202	23000	22	SY	ROAD PAVEMENT REMOVED
			22			108			108		- 24		202	30000	108	SF	WALK REMOVED
					688	100			88	150	400	50	202	38000	688	FT	GUARDRAIL REMOVED
					10				2	6	7	2	202	42001	10	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN
					4						2	2	202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
											Z						
					400				100	200	100		606	15100	400	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
					8				2	4	2		-606	26150	8	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)
					6	400			100		6		606	35141	6	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN
						108			108				608	52000	108	SF	CURB RAMP
																	EROSION C
									900	100	(882	30000	1,000	EACH	EROSION CONTROL
											(1				
											7		<u> </u>				DRAIN
	9								9				611	98630	9	EACH	CATCH BASIN ADJUSTED TO GRADE
2	2		42						2			40	611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE
			12								(12	611	97600	12	СҮ	CONDUIT, MISC.:, GRANULAR STRUCTURAL BACKFILL, 703.11
													5				PAVEN
75	50								650	100	~~~		253	02000	750	СҮ	PAVEMENT REPAIR, (A)
						4			4		7		253	02000	4	СҮ	PAVEMENT REPAIR, (B)
			140,891						125,369	15,522	(,		254	01000	140,891	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"
			1,419						1,262	157	(254	01600	1,419	SY	PATCHING PLANED SURFACE
			5								7	5	-301	56000	5	CY	ASPHALT CONCRETE BASE, PG64-22, (449)
													2				
			8,458						7,523	931		4	407	20000	8,458	GAL	NON-TRACKING TACK COAT
			4,210						3,735	475	— (—	2	441 441	00100	4,210	CY CY	ANTI-SEGREGATION EQUIPMENT
			2 5,766						5,119	647		2	441	10021	2 5,766	CY CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL 20
			359						317	42	\rightarrow		617	10021	359	СҮ	COMPACTED AGGREGATE
			555						517	72				10100	555		
			8,612						7,603	1,009	(_		617	20000	8,612	SY	SHOULDER PREPARATION
			7						6	1	(617	25000	7	MGAL	WATER
			7.34						6.48	0.86			-618	43000	7.34	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)
			7.34						6.48	0.86			874	21000	7.34	MILE	LONGITUDINAL JOINT PREPARATION
																	TRAFFIC
55	54								489	65			621	00100	554	EACH	TRAFFIC C
55									489	65			611	54000	554	EACH	RAISED PAVEMENT MARKER REMOVED
					8				8		~~~~		626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL
				14.68					12.96	1.72	~		£ 44	00104	14.68	MILE	EDGE LINE, 6"
				7.34					6.48	0.86			644	00300	7.34	MILE	CENTER LINE
				40						12	(00500	12		
				12 1						12 1			6 44 644	00500	12 1	FT EACH	STOP LINE RAILROAD SYMBOL MARKING
				600					600	1	<u>ح</u>		644	01510	600	FT	DOTTED LINE, 6"
				000					000		<u> </u>		~	01510	000		
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		7.34							6.48	0.86	<u> </u>		-614	21100	7.34	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT
		7.34							6.48	0.86	(614	21100	7.34	MILE	WORK ZONE CENTER LINE, CLASS II, 642 PAINT
		14.68							12.96	1.72	(614	22360	14.68	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT
		12								12	7		614	26610	12	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT
		1								1	7		614	32210	1	EACH	WORK ZONE RAILROAD SYMBOL MARKING, CLASS III, 642 PAINT
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	-+												⊢)				Nobel State
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	\rightarrow								LUMP	LUMP	LUMP	LUMP	614	11000	LS		MAINTAINING TRAFFIC
									LUMP	LUMP	LUMP	LUMP	-623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN
					1				LUMP	LUMP	LUMP	LUMP	624	10000	LS		MOBILIZATION
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L 2024, AS PER PLAN, 12.5 MM	3	
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SFN 6800130) SEE SHEET 11		
SPAN (SFN 6800165) SEE SHEET 13		
ANCE OF TRAFFIC		
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		DESIGN AGENCY
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		JDO 6/12/23 PROJECT ID
		100648
		SHEET TOTAL P.5 19







$\langle \hat{A} \rangle$ EXISTING ASPHALT CONCRETE PAVEMEN

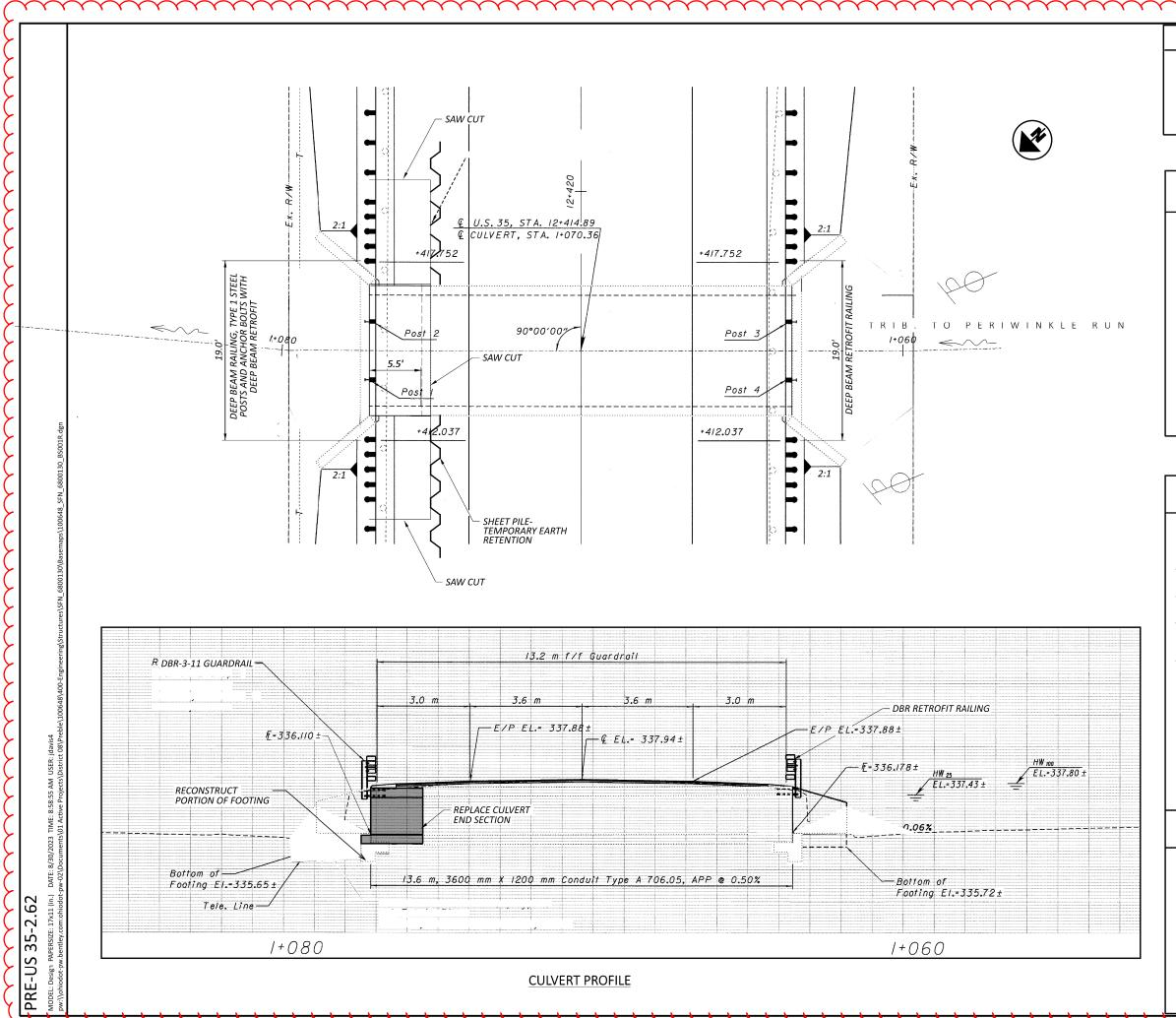
PLAN SPLIT ROUTE B B BVEMENT AREA PWEMENT AREA PWEMENT REMOVED NOTES SUBFACE COUNSET, VET GRANULARS STUCTURAL (M43), PG4422 GRANULARS STUCTURAL (M43), PG442 MATHER (M43), PG442 Incc. (M43), PG442 THICK. (M53) THICK THI					5-8.18) 611 DUIT, MISC.:			DNS - STRL 441 PHALT COI	_	PAVEMENT CAL 407	ES 	JLDER				SAME OPPOSITE SIDE		
Ody/Str(v0 PRE-35-8.18 16 6 11 11 2 1.3 3.00 1 6 PAVEMENT REPLACEMENT UPSTATION 10 6 11 11 2 1.3 3.00 1 6 PAVEMENT REPLACEMENT UPSTATION 11 10 6 11 11 2 1.3 3.00 1 6 PAVEMENT REPLACEMENT UPSTATION TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12 TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12 TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12 TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12 12 TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12 12 TOTALS CARRIED TO GENERAL SUMMARY 22 5 4 2 12 12	PAVEMENT QUANTITIES	NOTES				BAC THICK-		(449), PG6 :-	^{до} Х ТН	E TRACKING TACK COAT @ 0.06 GAL/SQ	CONCRETE BASE, PG64			AVERAGE WIDTH	LENGTH	ROUT		
ZSA 407 442 617 618 874 ZS4 407 442 617 618 874 VEMENT PLANING PHALT CONCRETE PALVED NON TRACKING 10.96 GAL/SQVD ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN SEGREGATION ANTI- SEGREGATION SHOULDER OBJC/LU YD RUMBLE STRIES, GAL/CU YD NUMBLE STRIES, GAL/CU YD NUTES 1106 0.99 GAL/SQ YD THICK- NESS THICK- NESS CU YD CU YD SQ YD MGAL MILES MILES 1106 115 150 442.1 285.7 24.4 586.7 0.5 0.50 0.50 50 10611.1 107 955.0 1.50 442.1 285.7 24.4 586.7 0.5 0.50 0.50 EATON LIMITS 50 10611.1 107 955.0 1.50 442.1 285.7 24.4 586.7 0.5 0.50 0.50 <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>INCHES</td> <td>1</td> <td></td> <td>3</td> <td>1.3</td> <td>2</td> <td>11</td> <td>11</td> <td>6</td> <td>18 16</td> <td>PRE-35-8</td> <td></td> <td>5</td>					6	INCHES	1		3	1.3	2	11	11	6	18 16	PRE-35-8		5
SUMMARY 22 5 4 2 12 254 407 442 617 618 874 254 407 442 617 618 874 VEMENT PLANING PHAINED PHAINED NON TRACKING PHAINED ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN ASPHALT CONCRETE SURFACE COURSE, 12.5 SEGREGATION SHOULDER WATER @ 20 GAL(CU YD RUMBLE STRIPES, IAC (OXFRET) INON TRACKING (ASPHALT NOTES NOTES 7TH THICK- THICK- THICK- THICK- Stripes, IAC (OXFRET) SHOULDER (ASPHALT) RUMBLE STRIPES, IAC (OXFRET) INTHE (ASPHALT NOTES 50 11406.6 115 1026.6 1.50 475.3 321.9 24.4 586.7 0.5 0.50 0.50 EATON INTIS 50 10611.1 107 955.0 1.50 442.1 285.7 24.4 586.7 0.5 0.50 0.50 EATON INTIS 50 9408.9 95 846.8 1.50 392.0 283.8 24.4 586.7 <td></td> <td></td> <td></td> <td></td> <td>D A</td> <td></td> <td>T</td> <td></td> <td></td> <td>1.3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>J</td> <td>¢</td>					D A		T			1.3							J	¢
VPHAIT CONCRETE PATCHING PLANED PATCHING PLANED NON TRACKING PLANED ASPHAIT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN DO GAL ANTI- SEGREGATE, 1.5' UMD TH SHOULDER AGREGATE, 1.5' UMD TH SHOULDER PREPARATION WATER @ 2 GAL/CU YD RUMBLE STRIPES, CANTER @ 20 LONGITUDINAL ONTENDING NOTES PTH -<					12	\times	2			4	5	22	NENAL					
Vertex Partching PLANED Non TRACKING PLANED ASPHAIT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, AS PER PLAN DO GAL ANTI- SEGREGATION NES COMPACTED AGGREGATE, 1.5" WIDTH SHOULDER PREPARATION Water @ 20 GAL/CUYD RUMBLE STRIPES, CANTER, CONCRETE LONGITUDINAL JOINT NOTES VTH V SQ YD GAL INCHES CUYD CUYD SQ YD MALES NOTES VTH V SQ YD GAL INCHES CU YD CU YD SQ YD MALES MILES 00 11406.6 115 1026.6 1.50 475.3 321.9 24.4 586.7 0.5 0.50 0.50 EATON LIMITS 01 1017 955.0 1.50 442.1 285.7 24.4 586.7 0.5 0.50 0.50 EATON LIMITS 050 1051.1 107 95.0 330.6 280.7 24.4 586.7 0.5 0.50 EATON LIMITS 0408.9 95 846.8 1.50 392.0 280.7 24.4 586.7			874	618			617					442			407		254	
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Image: Section of the sectio		4	MUES				50 1					CUYD	ESS	N	CAL	SO VD	50 VD	
5010611.1107955.01.501.42.1285.724.4586.70.50.500.50EATON LIMITS507262.873653.71.50302.6286.524.4586.70.50.500.500.50509408.995846.81.50392.0283.824.4586.70.50.500.500.50509132.292821.91.50380.5280.724.4586.70.50.500.500.50509051.191814.61.50377.1279.624.4586.70.50.500.500.50509246.193832.21.50385.3280.724.4586.70.50.500.500.50509246.193832.21.50385.3280.724.4586.70.50.500.500.50509246.193832.21.50385.3280.724.4586.70.50.500.500.50509246.193832.21.50385.3288.024.4586.70.50.500.500.50509246.193832.21.50459.1293.324.4586.70.50.500.500.50509965.0100896.91.50459.1283.524.4586.70.50.500.500.50509435.697866.3 <t< td=""><td></td><td>RUMBLES END 650' PRIOR TO CITY OF</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		RUMBLES END 650' PRIOR TO CITY OF																
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<i>SY</i> 1	MMETRICAL A			Ē 			RUCTURAL BAC	CKFILL TYPE	1		SAME OPPOSITE SIDE T		PICAL FOR US 35 EDGE OF TRAVELED W VIES SHO	ULDER	ES								
1) ITEM 4	NG ASPHALT C	CONCRETE HALT CON	CRETE SUI		URSE, 12.:	5 MM, TYPE A	(446), PWL,202	24, AS PER PLA	٨N	PLAN SPLIT	ROUTE	LENGTH	ALEA ALEA ALEA ALEA	202 PAVEMENT REMOVED	301 8" ASPHA CONCRE BASE, PG	407 ALT NON TRACKING	LCULATIONS - STI 44: ASPHALT CC SURFACE COU (449), PC	DNCRETE RSE, TYPE 1 G	(PRE-35-8.18) 611 CONDUIT, MISC RANULAR STRUCT BACKFILL, 703.1	JRAL		NOTES	
4) ITEM - 5) ITEM -	254 - 1.50" PA 441 - 1.5" ASPH 301 - 8" ASPH 617 - COMPAC	HALT CONC ALT CONC	RETE SURFA RETE BASE	CE COURS					Ę	04/STR/04	PRE-35-8.12 TOTALS	16	FT SQ YD 6 11 6 11 TO GENERAL	SQ YD 11 11 22	22 CU YD 2 2 5	YD	THICK- NESS	1	HICK- VESS ICHES CUY 6 6 6 12	PAVEME PAVEME	NT REPLACEMENT U		
										254		407		442				617		618	874		- _ -
N SPLIT	COUNTY- ROUTE	LOG POI	NT (MILE)	LEN	GTH	PAVEMENT AREA (Micro- Station Generated	PAVEMENT AREA WITH NO SHOULDERS	PAVEMENT AREA		ENT PLANING LT CONCRETE	PLANED	ION TRACKIN TACK COAT @ .09 GAL/SQ Y	D		,	ANTI- SEGREGATION EQUIPMENT	COMPACTED AGGREGATE, 1.5 DEPTH, 12" WIDTH	" SHOULDER PREPARATIO		RUMBLE STRIPES, CENTER LINE (ASPHALT	LONGITUDINAL JOINT PREPARATION	NOTES	
		FROM	то	MILES	FT	Area) SQ FT	SQ FT	SQ YD	DEPTH INCHES	SQ YD	SQ YD	GAL	THICK- NESS INCHES	CU YD		CU YD	CU YD	SQ YD	MGAL	CONCRETE) MILES	MILES		
STR/05 STR/05 STR/05 STR/05 STR/05	PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35	2.67 3.17 3.67 4.17 4.67	3.17 3.67 4.17 4.67 5.17	0.50 0.50 0.50 0.50 0.50	2640 2640 2640 2640 2640	102659 95500 65365 84680 82190	69530 61707 61879 61293 60623	11407 10611 7263 9409 9132	1.50 1.50 1.50 1.50 1.50 1.50	11406.6 10611.1 7262.8 9408.9 9132.2	115 107 73 95 92	1026.6 955.0 653.7 846.8 821.9	1.50 1.50 1.50 1.50 1.50 1.50	475.3 442.1 302.6 392.0 380.5		321.9 285.7 286.5 283.8 280.7	24.4 24.4 24.4 24.4 24.4 24.4	586.7 586.7 586.7 586.7 586.7 586.7	0.5 0.5 0.5 0.5 0.5	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50	RUMBLES END 650' PRIOR TO CITY OF EATON LIMITS	
/STR/05 /STR/05 /STR/05 /STR/05 /STR/05	PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35	5.17 5.67 6.17 6.67 7.17	5.67 6.17 6.67 7.17 7.67	0.50 0.50 0.50 0.50 0.50	2640 2640 2640 2640 2640	81460 83215 99155 89685 84920	60401 62203 62820 63349 62206	9051 9246 11017 9965 9436	1.50 1.50 1.50 1.50 1.50	9051.1 9246.1 11017.2 9965.0 9435.6	91 93 111 100 95	814.6 832.2 991.6 896.9 849.2	1.50 1.50 1.50 1.50 1.50 1.50 1.50	377.1 385.3 459.1 415.2 393.1		279.6 288.0 290.8 293.3 288.0	24.4 24.4 24.4 24.4 24.4 24.4	586.7 586.7 586.7 586.7 586.7 586.7	0.5 0.5 0.5 0.5 0.5 0.5	0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50		
/STR/05 /STR/05 /STR/05 /S5K/05 /S5K/05	PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35 PRE-US 35	7.67 8.17 8.67 9.15 9.65	8.17 8.67 9.15 9.65 10.01	0.50 0.50 0.48 0.50 0.36	2640 2640 2534 2640 1901	86235 86625 86630 85665 54032	61231 61880 57633 59405 43107	9582 9625 9626 9518 6004	1.50 1.50 1.50 1.50 1.50	9581.7 9625.0 9625.6 9518.3 6003.6	96 97 97 96 61	862.4 866.3 866.3 856.7 540.3	1.50 1.50 1.50 1.50 1.50 1.50	399.2 401.0 401.1 396.6 250.1		283.5 286.5 266.8 275.0 199.6	24.4 24.4 23.5 24.4 17.6	586.7 586.7 563.2 586.7 422.4	0.5 0.5 0.5 0.5 0.4	0.50 0.50 0.50 0.50 0.28	0.50 0.50 0.50 0.50 0.28		
																							DESIGNE RE ^V
																							PROJECT

PRE-US 35-2.62 MODEL: Sheel_Survet PAPERSIZE: 17x11 (In.) DATE: 8/29/2023 TIME: 2.32:56 PM USER: jdavis4

		1					1						1	1
	PART	COUNTY	ROUTE	LOG P	OINT	SIDE	GUARDRAIL REMOVED	ITEM 202 ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY REMOVED	GUARDRAIL, TYPE MGS WITH LONG POSTS	ITEM 606 BRIDGE TERMINAL TYPE 4, AS PER PLAN	ANCHOR ASSEMBLY, MGS TYPE E	ITEM 626 BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
				FROM	ТО		FT	EACH	EACH	FT		EACH	EACH	-
	01/STR/05	PRE	35	3.45	3.46	RIGHT	13.0			50.0		1	2	REMOVE THE TYPE A 50' MGS LONG POST EXTENDING ALONG N
· ~			25	0.10			25.0	1			1			
	04/STR/04 04/STR/04	PRE	35 35	8.18		LEFT	25.0 25.0	1			1			REMOVE AND REPLA RECONSTRUCTION.
	LO2/SIR/O5	PRE	35	6.20	6.20	RIGHT	75.0	1		50.0		1	2	
	03/STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	5
	03/STR/13	PRE	35	8.61		LEFT	100.0	1	1	50.0	1	1	2	5
	03/STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	S
	03/STR/13	PRE	35	8.61		RIGHT	100.0	1	1	50.0	1	1	2	9
ußp	02/S5K/05	PRE	35	9.59	9.59	LEFT	75.0	1		50.0		1	2	
\$100648_GR001.	02/S5K/05	PRE	35	9.59	9.59	RIGHT	75.0	1		50.0		1	2	
(Roadway/Sheets														
ris4 /400-Engineering														
PM USER: jdav 3\Preble\100648														
3 TIME: 2:01:49 PM rojects/District 08/Pre														
DATE: 8/29/2023 ⁻ ments\01 Active Proj														
2 : 17×11 (in.) pw-02\Docum														
PRE-US 35-2.62 MODEL: Sheet_SurvFt PAPERSIZE: 17x1 pw:Vohiodot-pw.Eentley.com:chiodot-pw.00														
3 35 SurvFt Pr entley.cc														
PRE-US MODEL: Sheet_S pw:\\ohiodot-pw.b		TOTALS C	I ARRIED TO G	I SENERAL SUMI	MARY	<u> </u>	688	10	4	400		8	16	

NOTES	
E A ANCHOR AND 12.5' EXISTING GUARDRAIL ON THE RADIUS. REPLACE WITH ST GUARDRAIL (12.5' ON THE RADIUS) AND A MGS TYPE E ANCHOR G MURRAY ROAD. FOOTPRINT WILL INCREASE ROUGHLY 62.5'. PLACE THE BRIDGE TERMINAL ASSEMBLY DUE TO THE CULVERT OUTLET	GUARDRAIL QUANTITIES
MATCH EXISTING FOOTPRINT	QUAI
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	AIL
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	KDR.
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	UAR
STRUCTURE NO: PRE-35-0860, MATCH EXISTING FOOTPRINT	ט
MATCH EXISTING FOOTPRINT	
MATCH EXISTING FOOTPRINT	
	DESIGN AGENCY
	DESIGNER
	JED REVIEWER JDO 6/12/23
	PROJECT ID 100648
	SHEET TOTAL P.9 20
	•



	HYDRAULIC DATA	°)
	DRAINAGE AREA = 132 Hectacres Q (25) = 8.4 M^3/S V (25) = 3.8 M/S Q (100) = 11.2 M^3/S V (100) = 4.0 M/S	HORIZONTAL SCALE IN FEET 0 0	
	EXISTING STRUCTURE TYPE: 12' X 4' PRECAST REINFORCED CONCRETE BOX SPANS: 11.8 FT F/F CULVERT ROADWAY: 43.3 FT F/F GUARDRAIL LOADING: HS 20-44 AND THE ALTERNATE MILITARY LOADING SKEW: TANGENT WEARING SURFACE: BITUMINOUS CONCRETE ALIGNMENT: TANGENT CROWN: 0.016 STRUCTURE FILE NUMBER: 6800130 DATE BUILT: 1996 DISPOSITION: OUTLET END BOX CULVERT SECTION TO BE REPLACED	SITE PLAN No.: PRE-35-8.18 JTARY TO PERIWINKLE RUN	
1. 2. 3. 4.	REPLACE THE EAST SECTION OF PRECAST BOX CULVERT WITH A NEW PRECAST BOX CULVERT SECTION. REPAIR REMAINING PORTIONS OF CULVERT INTERIOR WHERE SPALLING HAS OCCURRED WITH TROWELABLE MORTAR PER SS 843. SEAL CULVERT ENDS AND WINGWALLS CONCRETE SURFACES WITH EPOXY URETHANE SEALER PER CMS 512. RETROFIT THE RAILING ON THE WEST SIDE PER DBR-3-11. RAILING ON THE EAST SIDE SHALL BE NEW. UPGRADE APPROACH GUARDRAIL AS NECESSARY TO MEET MGS SPECIFICATIONS. MILL AND FILL THE SURFACE COURSE ONLY ON THE STRUCTURE.	BRIDGE OVER TRIBU	
	NOTES	SFN 6800130 DESIGN AGENCY	
1.	VARIOUS INFORMATION ON THE CULVERT PLAN, CULVERT PROFILE AND HYDRAULIC DATA TABLE ON THIS SHEET WERE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. SOME CULVERT PLAN DIMENSIONS ARE SHOWN IN METRIC UNITS.	DESIGNER CHECKER GTF JED REVIEWER JDO 6/12/23 PROJECT ID 100648 SUBSET TOTAL	イイイイイ

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P.11A

<u>DESIGN SPECIFICATIONS:</u> THIS STANDARD DRAWING CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATION" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND THE 2020 OHIO BRIDGE DESIGN MANUAL

DESIGN DATA: THE FOLLOWING DESIGN DATA IS ASSUMED:

CONCRETE - COMPRESSIVE STRENGTH 4000 PSI - FOOTING COMPRESSIVE STRENGTH 4500 PSI - CULVERT

REINFORCING STEEL -GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN INSTALL GALVANIZED DOWEL BARS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BLACK REBAR PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW. THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT. PRIOR TO THE INSTALLATION OF THE ANCHORS. THE HOLES SHALL BE CLEANED AND DRIED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

HILTI HIT-HY 200 ADHESIVE ANCHORS ICC-ES REPORT ESR-3187)

DEWALT PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-3298)

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS ICC-ES REPORT ESR-4057)

ATC ULTRABOND HS-1CC ADHESIVE ANCHOR SYSTEM (ICC-ES REPORT ESR-4094)

THE MANUFACTURER'S INSTALLATION INSTRUCTION PUBLISHED IN THE ICC-ES REPORTS FOR ACCEPTABLE PRODUCTS ARE AVAILABLE AT:

https://icc-es.org/evaluation-report-program/

ITEM 611 - CONDUIT, MISC.: GRANULAR STRUCTURAL BACKFILL, 703.11

STRUCTURAL BACKFILL TYPE 1 CONSISTING OF CRUSHED CARBONATE STONE, THAT MEETS THE GRADATIONS OF ITEM 304 SHALL BE PLACED AS SHOWN IN THE DETAIL BELOW. QUANTITY SHALL BE BASED ON A TRENCH LENGTH OF 92 FEET MEASURED ALONG THE CENTERLINE OF THE CULVERT. PAYMENT FOR STRUCTURAL BACKFILL TYPE 1 AND THE EXCAVATION REQUIRED FOR THE PLACEMENT OF THE STRUCTURAL BACKFILL SHALL BE INCLUDED IN ITEM 611 FOR PAYMENT.

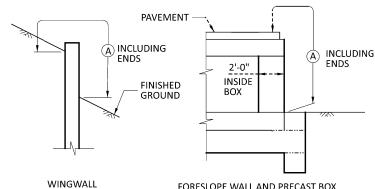


<u>POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN</u> 1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

GENERAL NOTES

<u>SEALING OF CULVERT BOX FACES AND WINGWALLS:</u> ALL EXPOSED CULVERT BOX FACES AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES

PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALL. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.



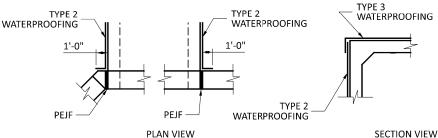
FORESLOPE WALL AND PRECAST BOX (CULVERT OUTLET BEVEL SHOWN)

LIMITS OF ITEM 512-SEALING CONCRETE SURFACES (A) - SEAL ENTIRE CONCRETE SURFACE AREA

WATERPROOFING: TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

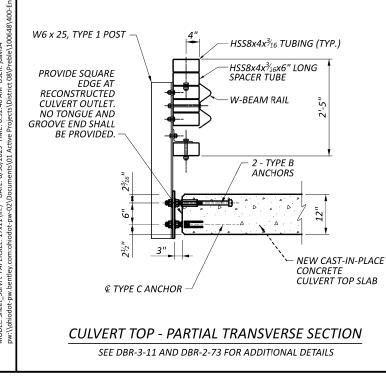
SINCE PAVEMENT WILL BE PLACED DIRECTLY ON TOP OF THE NEW CULVERT SECTION, TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CULVERT SECTION AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.

EXTEND TYPE 2 AND 3 WATERPROOFING 1 FOOT BEYOND THE SECTION JOINT OF NEW AND EXISITING SECTIONS.

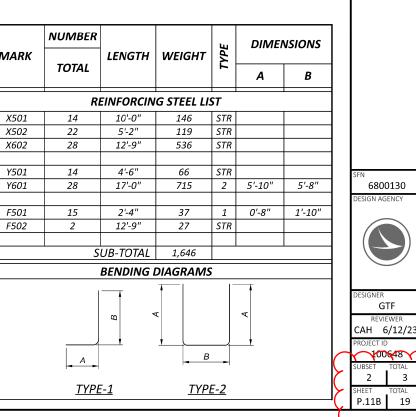


BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC1 CONCRETE, RETAINING/WINGWALL - INCLUDING FOOTING). PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL

				(
ESTIMATED QUANTITIES (PLAN SELIT 04/STR/04)] м.
ITEM	ITEM EXT	TOTAL	UNIT		
				<u> </u>	
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED	
202	23000	11	SQ. YD.	PAVEMENT REMOVED	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING	
503	21300	LUMP		UNCLASSIFIED EXCAVATION	
509	10001	1646	LB.	EPOXY COATED STEEL REINFORCEMENT	
510	10001	13	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	<u>ү</u>
511	46510	0.5	CU. YD.	CLASS QC1 CONCRETE, FOOTING	
511	33412	0.5	CU. YD.	CLASS QC2 CONCRETE, SUPERSTRUCTURE	F
512	74001	18	SQ. YD.	REMOVAL OF EXISITING COATINGS FROM CONCRETE SURFACES	
512	10101	36	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33001	9	SQ. YD.	TYPE 2 WATERPROOFING, AS PER PLAN	
512	33011	32	SQ. YD.	TYPE 3 WATERPROOFING, AS PER PLAN	1
516	13600	13	SQ. FT.	1" PREFORMED EXPANSION JOINT FILLER	
517	72300	18.75	LIN. FT.	RAILING (DEEP BEAM RAILING WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS)	
517	75600	18.75	LIN. FT.	DEEP BEAM BRIDGE RETROFIT RAILING	
518	21201	3.24	CU. YD.	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
843	50000	3.24	SQ. YD.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
878	25000	LUMP		INSPECTION AND COMPACTION TESTING OF UNBOUJND MATERIALS	



WATERPROOFING DETAILS



STRUCTURE NOTES BRIDGE No.: PRE-35-8.18 OVER TRIBUTARY TO PERIWINKLE RUN

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